

One Turbine (LM 6000) Nitrogen Oxides (NO_x) Emissions from Normal Operations

Operating Condition	Fuel Rate (lb/hour)	Fuel Rate-HHV (MMBtu/hr)	Fuel Rate-HHV (MMSCF/hr)	Uncontrolled Stack Concentration (ppmdv @ 15% O ₂)	Controlled Stack Concentration (ppmdv @ 15% O ₂)	Uncontrolled Emission Factor / Rate			Controlled Emission Factor / Rate			Removal Efficiency (percent)			
						(lb/MMscf)	(lb/MMBtu)	(lb/hour)	(lb/MMscf)	(lb/MMBtu)	(lb/hour)				
1	20,260	467.5	0.445	25.0	5.0	96.7	0.0921	43.0	19.3	0.0184	8.6	80%			
2	15,950	368.0	0.350	25.0	5.0	96.7	0.0921	33.9	19.3	0.0184	6.8	80%			
3	12,200	281.5	0.268	25.0	5.0	96.7	0.0921	25.9	19.3	0.0184	5.2	80%			
4	18,710	431.7	0.411	25.0	5.0	96.7	0.0921	39.8	19.3	0.0184	8.0	80%			
5	19,540	450.8	0.429	25.0	5.0	96.7	0.0921	41.5	19.3	0.0184	8.3	80%			
6	16,180	373.3	0.356	25.0	5.0	96.7	0.0921	34.4	19.3	0.0184	6.9	80%			
7	13,310	307.1	0.292	25.0	5.0	96.7	0.0921	28.3	19.3	0.0184	5.7	80%			
8	10,330	238.3	0.227	25.0	5.0	96.7	0.0921	21.9	19.3	0.0184	4.4	80%			
9	16,590	382.8	0.365	25.0	5.0	96.7	0.0921	35.3	19.3	0.0184	7.1	80%			
10	16,590	382.8	0.365	25.0	5.0	96.7	0.0921	35.3	19.3	0.0184	7.1	80%			
11	13,700	316.1	0.301	25.0	5.0	96.7	0.0921	29.1	19.3	0.0184	5.8	80%			
12	19,540	450.8	0.429	25.0	5.0	96.7	0.0921	41.5	19.3	0.0184	8.3	80%			
13	11,350	261.9	0.249	25.0	5.0	96.7	0.0921	24.1	19.3	0.0184	4.8	80%			
14	9,590	221.3	0.211	25.0	5.0	96.7	0.0921	20.4	19.3	0.0184	4.1	80%			
15	7,800	180.0	0.171	25.0	5.0	96.7	0.0921	16.6	19.3	0.0184	3.3	80%			
AVG								31.4			6.3				
Fuel Heat Content - HHV (btu/scf) =		1,050		Molecular Weight =		46		Specific Molar Volume (scf/mole) =		385.3		F-Factor (dscf/MMBtu) =		8,710	